

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P#

Luminaire Tested: **FLDSQ4C05D010 FEU4C059035 F4LC-SQLWW-LI**

Issue Date: 12/13/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P#
 Test Lab: INNOVATION CENTER
 Issue Date: 12/13/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: FAIL-SAFE
 Catalog Number: FLDSQ4C05D010 FEU4C059035 F4LC-SQLWW-LI
 Description: 4 INCH 500 LUMEN FAIL-SAFE LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND F4LC-SQLWW TRIM WITH LI FINISH
 Light Source: -
 Ballast/Driver: -

Summary

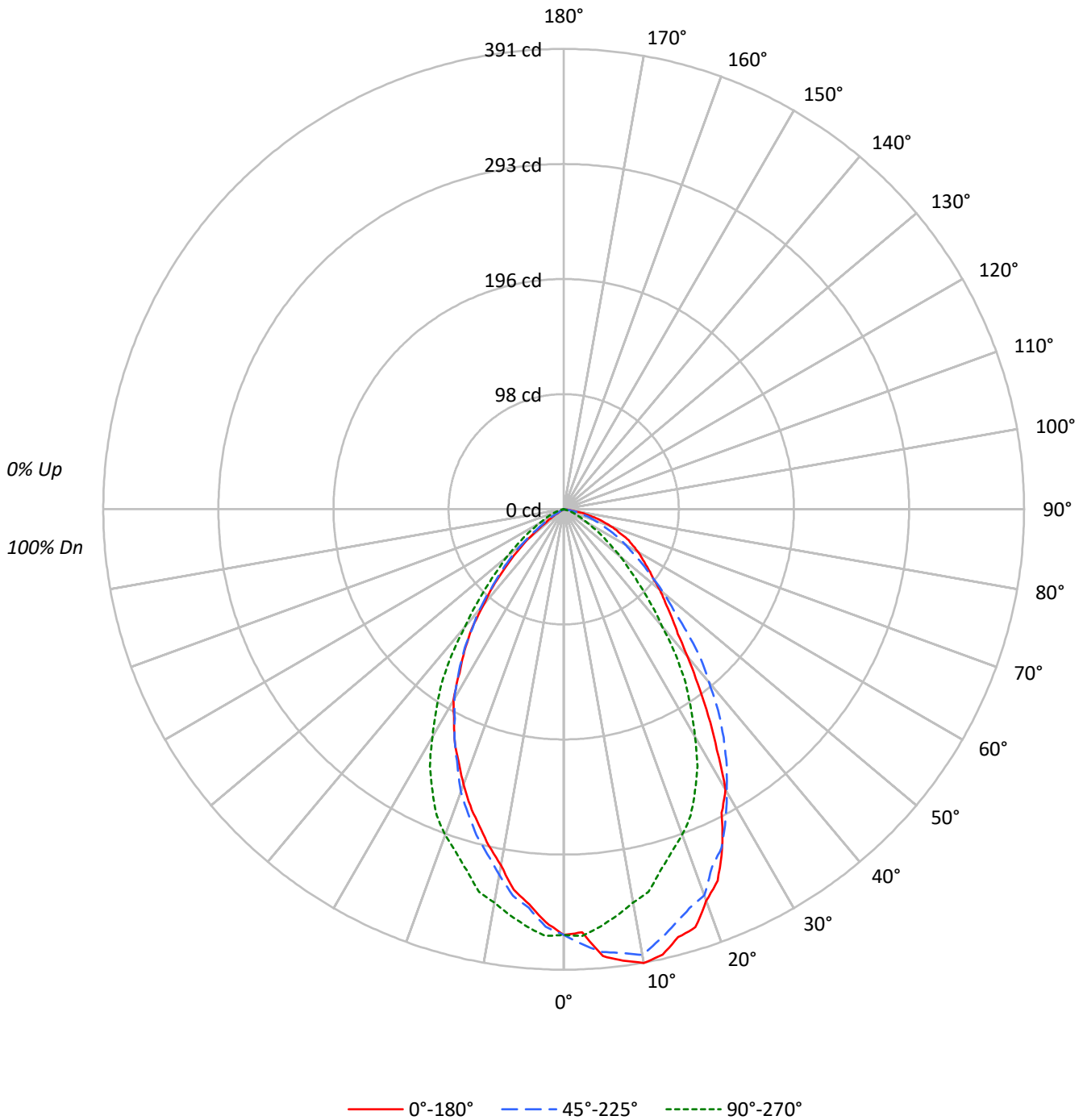
Lumens per Lamp: N/A
 Luminaire Lumens: 518.0 lumens
 Efficiency: N/A
 Efficacy: 71.9 lumens/watt
 Spacing Criteria (0/90/45): 1.01 / 1 / 1.06
 Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
 CIE Type: Direct

Input Watts (W): 7.2
 Input Voltage (V):
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT

| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | GONIO 1 IN0055 | 4/22/2021 | 10/22/2021 |
| Power Meter | XITRON 2801 IN0197 | 12/1/2020 | 12/1/2021 |
| AC Power Source | CHROMA 61505 IN0196 | 12/1/2020 | 12/1/2021 |
| DC Power Supply | AGILENT E3634A IN0198 | 11/30/2020 | 11/30/2021 |
| Room Thermometer | ONSET IN0143 | 12/1/2020 | 12/1/2021 |

TEST NUMBER: P#
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Luminous Intensity Polar Plot



TEST NUMBER: P#

CATALOG NUMBER: FLDSQ4C05D010 FEU4C059035 F4LC-SQLWW-LI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | 0 | | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | | 50 | 30 | 10 | | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | | 106 | 106 | 106 | | 102 | 102 | 102 | 100 |
| 1 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98 | | 98 | 96 | 95 | | 95 | 93 | 92 | 90 |
| 2 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 88 | 93 | 89 | 86 | | 90 | 87 | 84 | | 87 | 84 | 82 | 80 |
| 3 | 97 | 89 | 83 | 78 | 95 | 88 | 82 | 77 | 85 | 80 | 76 | | 82 | 78 | 75 | | 80 | 77 | 74 | 72 |
| 4 | 91 | 81 | 74 | 69 | 89 | 80 | 74 | 69 | 78 | 72 | 68 | | 76 | 71 | 67 | | 74 | 70 | 66 | 64 |
| 5 | 85 | 75 | 67 | 62 | 83 | 74 | 67 | 62 | 72 | 66 | 61 | | 70 | 65 | 60 | | 68 | 64 | 60 | 58 |
| 6 | 80 | 69 | 61 | 56 | 78 | 68 | 61 | 56 | 66 | 60 | 55 | | 65 | 59 | 55 | | 63 | 58 | 54 | 53 |
| 7 | 75 | 63 | 56 | 51 | 73 | 63 | 56 | 51 | 61 | 55 | 50 | | 60 | 54 | 50 | | 59 | 54 | 50 | 48 |
| 8 | 70 | 59 | 52 | 47 | 69 | 58 | 51 | 46 | 57 | 51 | 46 | | 56 | 50 | 46 | | 55 | 50 | 46 | 44 |
| 9 | 66 | 55 | 48 | 43 | 65 | 54 | 47 | 43 | 53 | 47 | 43 | | 52 | 46 | 42 | | 51 | 46 | 42 | 41 |
| 10 | 62 | 51 | 44 | 40 | 61 | 51 | 44 | 40 | 50 | 44 | 39 | | 49 | 43 | 39 | | 48 | 43 | 39 | 38 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 34871 | 34871 | 34871 |
| 5° | 36893 | 34452 | 32612 |
| 10° | 38339 | 33244 | 30059 |
| 15° | 37570 | 31726 | 27740 |
| 20° | 36349 | 30209 | 25537 |
| 25° | 33909 | 28096 | 23294 |
| 30° | 30606 | 24857 | 20857 |
| 35° | 25219 | 21285 | 17304 |
| 40° | 20581 | 16425 | 13314 |
| 45° | 17685 | 12472 | 9579 |
| 50° | 16002 | 9502 | 6049 |
| 55° | 14720 | 6847 | 2187 |
| 60° | 14126 | 4689 | 328 |
| 65° | 13653 | 3174 | 91 |
| 70° | 12216 | 2200 | 113 |
| 75° | 10028 | 1118 | 0 |
| 80° | 6279 | 500 | 0 |
| 85° | 0 | 0 | 0 |

TEST NUMBER: P#
 CATALOG NUMBER: FLDSQ4C05D010 FEU4C059035 F4LC-SQLWW-LI

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 33.9 | 6.5 |
| 10°-20° | 91.2 | 17.6 |
| 20°-30° | 121.8 | 23.5 |
| 30°-40° | 115.6 | 22.3 |
| 40°-50° | 79.9 | 15.4 |
| 50°-60° | 44.2 | 8.5 |
| 60°-70° | 21.9 | 4.2 |
| 70°-80° | 8.6 | 1.7 |
| 80°-90° | 0.8 | 0.2 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 246.9 | 47.7 |
| 0°-40° | 362.5 | 70.0 |
| 0°-60° | 486.6 | 93.9 |
| 0°-90° | 518.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 518.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 361 | 361 | 361 | 361 | 361 | |
| 5° | 381 | 377 | 356 | 340 | 337 | 36 |
| 15° | 376 | 365 | 318 | 286 | 278 | 106 |
| 25° | 318 | 317 | 264 | 219 | 219 | 145 |
| 35° | 214 | 237 | 181 | 149 | 147 | 134 |
| 45° | 130 | 149 | 91 | 75 | 70 | 101 |
| 55° | 88 | 82 | 41 | 21 | 13 | 79 |
| 65° | 60 | 43 | 14 | 0 | 0 | 58 |
| 75° | 27 | 16 | 3 | 0 | 0 | 29 |
| 85° | 0 | 0 | 0 | 0 | 0 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

TEST NUMBER: P#
 CATALOG NUMBER: FLDSQ4C05D010 FEU4C059035 F4LC-SQLWW-LI

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 |
| 2.5° | 359.6 | 369.6 | 370.5 | 369.6 | 370.9 | 370.5 | 372.6 | 370.5 | 373.1 | 369.2 | 370.0 |
| 5° | 380.9 | 377.0 | 385.2 | 380.9 | 380.9 | 380.4 | 379.1 | 378.7 | 380.4 | 374.8 | 377.4 |
| 7.5° | 386.5 | 392.1 | 399.5 | 390.4 | 390.8 | 390.8 | 388.2 | 387.4 | 387.4 | 377.0 | 380.0 |
| 10° | 391.3 | 387.8 | 391.7 | 388.2 | 391.3 | 390.8 | 392.6 | 386.9 | 390.8 | 384.8 | 384.3 |
| 12.5° | 387.4 | 386.1 | 391.3 | 385.6 | 383.9 | 384.3 | 382.2 | 380.9 | 382.2 | 375.2 | 374.8 |
| 15° | 376.1 | 377.4 | 385.2 | 379.1 | 378.3 | 377.4 | 374.8 | 370.5 | 373.9 | 364.4 | 364.8 |
| 17.5° | 372.2 | 370.0 | 371.4 | 366.1 | 367.4 | 366.6 | 366.1 | 362.3 | 361.4 | 355.3 | 355.3 |
| 20° | 354.0 | 358.8 | 358.8 | 355.3 | 355.3 | 354.9 | 349.2 | 352.7 | 348.8 | 347.1 | 348.8 |
| 22.5° | 341.4 | 341.9 | 341.9 | 338.8 | 339.3 | 337.6 | 334.5 | 332.3 | 334.5 | 332.3 | 328.9 |
| 25° | 318.5 | 319.4 | 324.5 | 318.9 | 318.0 | 319.8 | 317.2 | 315.9 | 315.4 | 310.3 | 317.2 |
| 27.5° | 290.7 | 299.4 | 299.0 | 296.8 | 299.4 | 295.9 | 294.7 | 295.1 | 296.4 | 295.9 | 297.7 |
| 30° | 274.7 | 276.0 | 277.3 | 275.6 | 276.0 | 274.7 | 274.7 | 275.1 | 278.6 | 277.3 | 276.9 |
| 32.5° | 242.2 | 246.5 | 250.0 | 250.0 | 250.4 | 251.8 | 251.3 | 260.4 | 262.6 | 258.3 | 257.4 |
| 35° | 214.1 | 217.1 | 220.1 | 220.6 | 226.2 | 226.6 | 227.1 | 229.7 | 235.7 | 237.0 | 236.6 |
| 37.5° | 187.2 | 190.2 | 191.1 | 195.0 | 198.0 | 201.0 | 204.5 | 208.0 | 213.2 | 217.5 | 215.4 |
| 40° | 163.4 | 164.7 | 166.8 | 168.6 | 174.6 | 174.6 | 176.3 | 183.3 | 188.9 | 192.4 | 191.9 |
| 42.5° | 143.4 | 143.9 | 145.6 | 148.6 | 154.3 | 153.0 | 154.3 | 159.0 | 167.2 | 167.7 | 172.5 |
| 45° | 129.6 | 129.1 | 130.4 | 130.9 | 134.3 | 136.1 | 136.9 | 140.4 | 147.3 | 148.2 | 148.6 |
| 47.5° | 117.0 | 116.6 | 118.7 | 119.6 | 120.9 | 122.6 | 122.6 | 123.1 | 125.7 | 127.8 | 126.1 |
| 50° | 106.6 | 106.6 | 106.6 | 107.5 | 109.6 | 109.2 | 109.6 | 111.4 | 112.7 | 111.8 | 111.4 |
| 52.5° | 95.3 | 97.1 | 98.4 | 98.8 | 99.2 | 99.2 | 99.7 | 98.8 | 98.4 | 97.1 | 94.5 |
| 55° | 87.5 | 89.3 | 89.3 | 89.3 | 89.3 | 91.0 | 88.8 | 89.3 | 89.3 | 85.8 | 82.3 |
| 57.5° | 79.7 | 81.5 | 82.8 | 81.0 | 82.8 | 81.0 | 80.2 | 79.7 | 78.9 | 75.4 | 70.2 |
| 60° | 73.2 | 74.1 | 73.7 | 73.2 | 74.1 | 72.8 | 71.9 | 70.2 | 69.3 | 64.6 | 61.1 |
| 62.5° | 65.9 | 66.3 | 66.7 | 65.9 | 65.0 | 64.6 | 62.8 | 60.2 | 58.5 | 54.6 | 51.6 |
| 65° | 59.8 | 58.5 | 58.1 | 57.6 | 56.8 | 55.5 | 54.2 | 51.1 | 49.8 | 46.4 | 43.3 |
| 67.5° | 50.7 | 50.3 | 51.1 | 49.8 | 47.7 | 47.7 | 46.4 | 43.8 | 40.7 | 38.6 | 35.5 |
| 70° | 43.3 | 42.9 | 42.0 | 40.7 | 40.3 | 38.6 | 38.6 | 35.5 | 34.7 | 30.8 | 28.2 |
| 72.5° | 35.5 | 35.5 | 34.2 | 32.9 | 31.6 | 30.8 | 30.3 | 28.2 | 26.9 | 24.7 | 22.5 |
| 75° | 26.9 | 26.9 | 26.4 | 25.1 | 24.3 | 23.4 | 23.0 | 21.2 | 19.9 | 17.8 | 16.5 |
| 77.5° | 19.1 | 19.1 | 17.3 | 16.5 | 16.9 | 16.0 | 15.2 | 14.7 | 14.3 | 13.0 | 11.3 |
| 80° | 11.3 | 10.8 | 9.5 | 10.0 | 9.5 | 9.5 | 9.1 | 8.7 | 7.8 | 6.9 | 6.1 |
| 82.5° | 3.0 | 3.5 | 3.5 | 3.5 | 3.9 | 3.0 | 3.0 | 3.0 | 3.5 | 3.5 | 2.2 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 0.4 |
| 87.5° | 0.4 | 0.9 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.3 | 1.3 | 1.3 | 0.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TEST NUMBER: P#

CATALOG NUMBER: FLDSQ4C05D010 FEU4C059035 F4LC-SQLWW-LI

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 |
| 2.5° | 365.7 | 365.3 | 365.7 | 362.7 | 369.6 | 364.4 | 363.5 | 362.7 | 365.7 | 362.7 | 358.3 |
| 5° | 373.5 | 369.2 | 367.9 | 366.6 | 370.5 | 364.4 | 363.1 | 363.5 | 361.4 | 355.7 | 356.2 |
| 7.5° | 376.1 | 372.2 | 368.3 | 360.1 | 363.5 | 362.3 | 358.8 | 356.2 | 352.7 | 347.9 | 347.1 |
| 10° | 377.0 | 372.6 | 367.0 | 364.4 | 359.2 | 357.5 | 356.2 | 351.8 | 347.5 | 339.3 | 337.1 |
| 12.5° | 374.4 | 369.2 | 362.3 | 360.1 | 356.2 | 350.5 | 347.5 | 343.2 | 339.3 | 332.8 | 328.0 |
| 15° | 363.1 | 358.8 | 356.6 | 349.2 | 347.5 | 344.0 | 338.0 | 331.9 | 326.3 | 317.6 | 315.0 |
| 17.5° | 350.1 | 348.4 | 346.2 | 340.6 | 340.1 | 336.7 | 331.0 | 325.8 | 318.5 | 305.0 | 300.7 |
| 20° | 336.7 | 336.7 | 329.7 | 327.6 | 331.9 | 325.0 | 320.6 | 315.9 | 300.7 | 294.2 | 286.4 |
| 22.5° | 326.7 | 322.0 | 318.0 | 314.6 | 315.0 | 310.7 | 304.6 | 295.1 | 289.4 | 281.6 | 272.6 |
| 25° | 307.2 | 308.9 | 300.3 | 299.0 | 300.3 | 290.3 | 287.3 | 279.5 | 271.2 | 263.9 | 256.9 |
| 27.5° | 295.1 | 290.3 | 284.7 | 279.9 | 279.9 | 276.0 | 267.4 | 265.6 | 253.0 | 246.1 | 237.4 |
| 30° | 276.9 | 273.4 | 268.6 | 261.7 | 260.9 | 257.8 | 250.9 | 246.5 | 233.6 | 223.1 | 218.4 |
| 32.5° | 253.9 | 252.6 | 248.7 | 240.9 | 238.3 | 234.8 | 226.2 | 218.8 | 212.8 | 201.0 | 195.4 |
| 35° | 237.4 | 232.7 | 224.5 | 218.0 | 215.8 | 209.7 | 202.8 | 197.6 | 191.1 | 180.7 | 173.3 |
| 37.5° | 212.8 | 208.0 | 200.2 | 192.4 | 192.4 | 186.3 | 176.8 | 171.6 | 162.5 | 156.4 | 150.4 |
| 40° | 191.1 | 185.0 | 177.2 | 168.1 | 166.8 | 158.1 | 154.3 | 145.6 | 140.0 | 130.4 | 129.6 |
| 42.5° | 166.8 | 161.2 | 154.3 | 147.3 | 142.1 | 137.8 | 127.8 | 121.3 | 115.3 | 110.5 | 109.2 |
| 45° | 144.7 | 137.4 | 131.3 | 122.6 | 117.4 | 112.2 | 105.7 | 101.4 | 96.6 | 91.4 | 88.4 |
| 47.5° | 125.7 | 119.6 | 110.9 | 103.1 | 97.9 | 95.3 | 88.0 | 83.2 | 79.3 | 75.8 | 73.7 |
| 50° | 106.2 | 98.8 | 94.0 | 85.4 | 84.5 | 78.4 | 72.4 | 68.5 | 66.3 | 63.3 | 60.2 |
| 52.5° | 91.4 | 84.5 | 78.0 | 71.5 | 68.0 | 65.9 | 60.2 | 56.3 | 53.3 | 51.1 | 49.4 |
| 55° | 77.1 | 71.1 | 65.9 | 59.4 | 57.2 | 54.2 | 47.7 | 46.8 | 43.8 | 40.7 | 38.6 |
| 57.5° | 66.3 | 60.7 | 54.6 | 50.3 | 46.4 | 44.2 | 39.0 | 35.5 | 33.8 | 31.2 | 29.0 |
| 60° | 56.3 | 50.3 | 45.5 | 40.3 | 38.6 | 35.5 | 31.6 | 28.6 | 26.4 | 24.3 | 22.1 |
| 62.5° | 47.2 | 42.0 | 36.8 | 32.5 | 29.9 | 28.2 | 25.1 | 22.5 | 20.4 | 18.6 | 16.9 |
| 65° | 39.0 | 34.2 | 29.9 | 25.6 | 24.3 | 22.1 | 19.9 | 17.8 | 16.0 | 13.9 | 12.1 |
| 67.5° | 32.1 | 27.7 | 23.4 | 20.4 | 19.1 | 18.2 | 15.6 | 13.4 | 12.1 | 10.8 | 9.1 |
| 70° | 25.1 | 22.1 | 18.6 | 16.0 | 14.7 | 13.4 | 11.7 | 10.4 | 8.7 | 7.8 | 6.5 |
| 72.5° | 19.5 | 16.9 | 13.9 | 11.7 | 10.8 | 10.0 | 8.2 | 6.9 | 6.1 | 5.2 | 4.3 |
| 75° | 13.9 | 11.7 | 10.0 | 7.8 | 7.4 | 6.9 | 5.6 | 4.8 | 3.9 | 3.0 | 2.6 |
| 77.5° | 9.5 | 7.8 | 6.1 | 5.2 | 4.8 | 3.9 | 3.5 | 2.6 | 2.2 | 1.7 | 1.3 |
| 80° | 5.2 | 3.9 | 3.0 | 2.6 | 2.2 | 1.7 | 1.7 | 1.3 | 0.9 | 0.9 | 0.4 |
| 82.5° | 1.7 | 1.3 | 0.9 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.0 | 0.4 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 |
| 2.5° | 360.9 | 356.2 | 357.5 | 357.5 | 356.6 | 356.6 | 355.7 | 354.4 | 354.9 | 352.3 | 346.7 |
| 5° | 357.0 | 351.0 | 350.1 | 351.0 | 347.5 | 346.7 | 344.9 | 347.5 | 339.7 | 342.7 | 339.3 |
| 7.5° | 345.8 | 340.1 | 338.8 | 341.9 | 337.6 | 334.9 | 334.5 | 338.0 | 331.0 | 327.6 | 323.7 |
| 10° | 333.2 | 331.0 | 327.1 | 325.0 | 323.7 | 324.1 | 320.6 | 316.3 | 315.0 | 314.1 | 310.7 |
| 12.5° | 322.0 | 317.2 | 313.7 | 311.1 | 310.3 | 310.3 | 304.6 | 303.8 | 299.8 | 299.0 | 293.8 |
| 15° | 308.5 | 302.9 | 300.7 | 297.3 | 294.2 | 295.9 | 289.4 | 287.7 | 286.4 | 280.8 | 281.6 |
| 17.5° | 296.8 | 290.7 | 285.6 | 283.4 | 280.8 | 278.2 | 272.1 | 273.4 | 270.4 | 270.4 | 262.6 |
| 20° | 281.6 | 275.1 | 271.2 | 266.9 | 266.9 | 263.5 | 259.1 | 259.5 | 255.6 | 251.8 | 244.8 |
| 22.5° | 265.6 | 258.7 | 253.9 | 252.2 | 247.8 | 247.0 | 241.8 | 240.5 | 235.3 | 235.7 | 229.7 |
| 25° | 248.7 | 241.8 | 235.3 | 235.7 | 231.8 | 230.1 | 227.1 | 221.0 | 218.8 | 216.2 | 214.5 |
| 27.5° | 228.8 | 224.0 | 218.4 | 218.0 | 210.6 | 211.0 | 207.1 | 205.4 | 200.2 | 201.5 | 197.6 |
| 30° | 210.6 | 203.7 | 198.4 | 197.2 | 194.1 | 193.3 | 187.2 | 184.6 | 185.5 | 182.0 | 179.8 |
| 32.5° | 191.9 | 181.6 | 179.4 | 176.8 | 175.1 | 172.9 | 168.6 | 170.3 | 166.4 | 167.2 | 163.8 |
| 35° | 167.2 | 162.9 | 157.3 | 157.3 | 155.6 | 153.8 | 150.8 | 152.5 | 148.6 | 146.9 | 143.4 |
| 37.5° | 146.5 | 142.6 | 136.9 | 138.7 | 135.6 | 133.0 | 130.4 | 130.9 | 127.4 | 127.0 | 123.5 |
| 40° | 123.9 | 121.8 | 117.9 | 117.9 | 115.7 | 115.7 | 114.4 | 113.1 | 110.9 | 108.3 | 104.4 |
| 42.5° | 102.7 | 101.0 | 99.2 | 99.7 | 96.6 | 99.2 | 95.8 | 97.9 | 91.0 | 90.6 | 88.0 |
| 45° | 87.1 | 83.2 | 83.6 | 81.9 | 80.2 | 81.0 | 78.0 | 78.9 | 75.0 | 74.1 | 71.5 |
| 47.5° | 70.6 | 69.3 | 66.7 | 65.9 | 65.9 | 64.6 | 63.3 | 62.8 | 61.1 | 58.9 | 55.5 |
| 50° | 58.1 | 53.3 | 52.4 | 51.1 | 50.3 | 50.3 | 48.5 | 45.9 | 46.4 | 44.2 | 40.7 |
| 52.5° | 45.5 | 41.6 | 39.9 | 39.4 | 37.7 | 36.8 | 34.7 | 32.9 | 31.6 | 30.8 | 28.6 |
| 55° | 35.1 | 31.6 | 29.5 | 29.5 | 26.9 | 26.9 | 23.8 | 22.5 | 20.8 | 19.1 | 17.8 |
| 57.5° | 26.4 | 24.7 | 22.5 | 20.8 | 19.9 | 17.8 | 16.0 | 13.9 | 12.6 | 10.0 | 8.2 |
| 60° | 19.9 | 18.2 | 16.0 | 14.7 | 13.9 | 11.7 | 9.5 | 7.8 | 4.8 | 3.9 | 3.5 |
| 62.5° | 14.7 | 13.0 | 10.8 | 10.0 | 9.1 | 7.4 | 5.2 | 2.6 | 1.3 | 1.3 | 1.3 |
| 65° | 10.8 | 8.7 | 6.9 | 6.1 | 5.2 | 3.9 | 1.7 | 0.9 | 0.4 | 0.4 | 0.4 |
| 67.5° | 7.4 | 5.6 | 3.9 | 3.5 | 2.6 | 1.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 70° | 4.8 | 3.5 | 1.7 | 1.3 | 0.9 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 72.5° | 3.0 | 1.7 | 0.9 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1.7 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.9 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 0.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

TEST NUMBER: P#
 CATALOG NUMBER: FLDSQ4C05D010 FEU4C059035 F4LC-SQLWW-LI

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 | 361.4 |
| 2.5° | 352.7 | 349.7 | 351.4 | 347.5 | 349.2 | 352.3 | 350.1 | 351.0 |
| 5° | 340.6 | 338.8 | 336.7 | 331.0 | 335.4 | 338.8 | 337.1 | 336.7 |
| 7.5° | 327.6 | 321.5 | 324.5 | 322.8 | 322.0 | 325.4 | 321.5 | 325.8 |
| 10° | 314.1 | 309.8 | 309.4 | 306.3 | 306.3 | 308.9 | 309.4 | 306.8 |
| 12.5° | 294.2 | 292.1 | 292.1 | 291.6 | 291.2 | 293.8 | 294.2 | 292.9 |
| 15° | 279.9 | 279.1 | 276.9 | 276.5 | 273.9 | 277.7 | 278.2 | 277.7 |
| 17.5° | 262.6 | 263.0 | 260.9 | 260.9 | 262.6 | 263.9 | 260.4 | 263.9 |
| 20° | 250.9 | 248.7 | 247.8 | 243.9 | 246.1 | 248.3 | 248.3 | 248.7 |
| 22.5° | 234.0 | 230.5 | 231.8 | 229.7 | 228.3 | 231.4 | 231.4 | 232.7 |
| 25° | 214.9 | 214.9 | 215.8 | 214.5 | 215.4 | 217.1 | 215.8 | 218.8 |
| 27.5° | 196.7 | 198.4 | 198.4 | 196.7 | 197.6 | 202.8 | 205.0 | 201.5 |
| 30° | 179.8 | 180.3 | 181.6 | 180.7 | 183.3 | 185.0 | 184.6 | 187.2 |
| 32.5° | 160.8 | 162.9 | 163.8 | 162.5 | 163.4 | 167.2 | 165.1 | 164.7 |
| 35° | 146.0 | 142.1 | 141.7 | 142.1 | 143.9 | 144.7 | 143.9 | 146.9 |
| 37.5° | 124.8 | 123.5 | 121.8 | 122.2 | 123.5 | 125.2 | 126.1 | 128.3 |
| 40° | 104.4 | 102.7 | 102.7 | 102.3 | 101.0 | 105.7 | 105.7 | 105.7 |
| 42.5° | 86.7 | 86.2 | 84.1 | 84.1 | 85.8 | 87.1 | 86.2 | 89.3 |
| 45° | 71.1 | 69.3 | 68.0 | 68.0 | 69.3 | 69.3 | 70.6 | 70.2 |
| 47.5° | 55.9 | 54.2 | 54.6 | 53.3 | 54.6 | 56.3 | 54.2 | 54.6 |
| 50° | 42.0 | 42.0 | 41.2 | 42.0 | 41.6 | 42.0 | 41.2 | 40.3 |
| 52.5° | 28.6 | 32.5 | 32.9 | 31.2 | 27.3 | 23.8 | 21.7 | 23.4 |
| 55° | 16.5 | 14.7 | 14.7 | 14.3 | 13.4 | 13.0 | 11.7 | 13.0 |
| 57.5° | 8.2 | 7.4 | 7.4 | 7.4 | 6.9 | 6.5 | 5.6 | 5.6 |
| 60° | 3.5 | 3.0 | 3.0 | 2.6 | 2.2 | 1.7 | 1.3 | 1.7 |
| 62.5° | 1.3 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 65° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 67.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 70° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)